Sonoma County Regional Climate Protection Authority **Climate Protection Initiative - Program Committees**

Potential Program Areas - All Sectors

Last Updated 2023-04-10

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Sonoma County Regional Climate Protection Initiative

- 1) Reach carbon neutrality in the shortest time possible to protect natural and human communities.
- 2) Adapt to the negative impacts of climate change to safeguard our families and communities.
- 3) Embed resilience actions into all activities to ensure a just transition to a low-carbon economy.

Sector-Specific: Buildings

Buildings: Upgrades

Invest in comprehensive electrification, efficiency, and resilience upgrades for existing residential, commercial, and municipal buildings to reduce greenhouse gas emissions and protect against climate impacts.

Buildings: Electric Vehicles

Invest in electric vehicle charging infrastructure that serves the greatest number of residents for which charging is a limiting factor.

Buildings: Local Government

Support local government efforts to facilitate comprehensive electrification, efficiency, and resilience upgrades and expand electric vehicle charging infrastructure for use by local residents.

Sector-Specific: Transportation

Transportation: Infrastructure Invest in bicycling and pedestrian improvements that increase actual and perceived user safety and

convenience.

Transportation: Transit

Invest in transit operations that improve reliability and frequency of service for all residents and visitors.

Transportation: Personal Mobility

Invest in programs that increase personal mobility through active transportation, transit use, or ride sharing.

Land and Water: Sequestration

Invest in efforts that increase carbon sequestration on natural lands, working lands, and developed areas while also enhancing climate resilience and preserving ecosystem functions.

Sector-Specific: Land and Water

Land and Water: Mitigation

Invest in efforts that reduce greenhouse gas emissions from natural lands, working lands, and developed areas while also enhancing climate resilience and preserving ecosystem functions.

Land and Water: Water-Related

Invest in water-related climate adaptation improvements to increase the long-term resiliency of countywide water operations and facilities, and green infrastructure such as watersheds, waterways, floodplains, and wetlands.

Cross-Sector: Public Education and Training

Buildings: Education

Educate and advise local residents and building owners on zero-emission appliance upgrades and other resilience improvements.

Transportation: Education

Educate local residents, homeowners, and employees on zero-emission transportation and other personal mobility options.

Land and Water: Education

Educate local land owners on land and water-focused climate resilience opportunities.

Cross-Sector: Workforce Development and Protections

Buildings: Workforce

Provide workforce training for building contractors and employees on electrification and resilience improvements, while also working to protect outdoor workers.

Transportation: Workforce

Provide workforce training on zero-emission vehicle repair and transit operations, while also working to protect workers.

Land and Water: Workforce

Provide workforce training on enhanced land management techniques, while also working to protect outdoor workers.

Cross-Sector: Social Equity Commitments and Guardrails

Buildings: Equity

Ensure all members of the community benefit from electrification and resilience upgrades, especially low-income residents and renters.

Transportation: Equity

Ensure all members of the community benefit from transportation upgrades, especially low-income residents and those without vehicles.

Land and Water: Equity

Invest in climate adaptation improvements to increase the long-term resiliency of Sonoma County's most vulnerable people. Sonoma County Regional Climate Protection Authority Climate Protection Initiative - Program Committees DRAFT **Potential Program Areas - Buildings** Last Updated 2023-04-06 Buildings: Upgrade: Buildings: EV Infrastructui Invest in comprehensive electrification, efficiency, and Support local government efforts to facilitate nvest in electric vehicle charging infrastructure that serves resilience upgrades for existing residential, commercial, comprehensive electrification, efficiency, and resilience the greatest number of residents for which charging is a and municipal buildings to reduce greenhouse gas upgrades and expand electric vehicle charging limiting factor. emissions and protect against climate impacts. nfrastructure for use by local residents. xamples of such projects include: Examples of such projects include: Examples of such projects include: Installation of zero-emission appliances in residential and commercial Increased incentives for building owners for the installation of electric Creation of community resilience centers with microgrid backup system buildings, including heat pump systems, heat pump water heaters, heat rehicle charging infrastructure in existing single family homes an or use during emergencies and extreme weather events pump clothes dryers, all-electric cooking equipment, etc. nulti-family residential buildings Installation of efficiency and resilience upgrades in all buildings, including improved insulation, roofing, windows, air sealing, wildfire Installation of electric vehicle charging on street light poles or using other low cost methods near multi-family residential buildings to Development of microgrids with solar systems and battery backups for ritical facilities and key municipal buildings support those who do not have access to electric vehiicle charging ardening, seismic strengthening, water efficiency, etc Increased education and financial incentives for vehicle-to-home electri Development of needs assessments for municipal buildings to identify Installation of smart electric panels and other energy management devices that help avoid costly electrical panel upgrades rehicle charger installations to provide battery backup power during electrification, efficiency, and resilience upgrade opportunities and electric outages and help manage peak energy demands assemble adequate retrofit funding evelopment of citywide Electric Vehicle Charging master plans to Installation of integrated battery backup technology in all-electric critical facilities to increase resiliency and ensure emergency use during electriidentify local needs, potential locations, and assemble adequate power outages installation funding Promotion of existing rebates and incentives from Sonoma Clean Powe Expansion of programs and services designed to make it easier and more Bay Area Regional Energy Network, Healdsburg Electric, and other affordable to build "green" (solar, metal roofs, proper insulation regional, state, and federal sources to help fill funding gaps and make educed-carbon and carbon-positive building materials, etc.) upgrades more affordable for households Additional funding for incentives for the installation of water Support for local jurisdictions to streamline permitting of electrification conservation measures and/or greywater system projects Support for local jurisdictions to develop and adopt policies that restrict natural gas in all new construction, including in freestanding accessory Additional funding for incentives for flooding retrofits to prevent future property damage (e.g., Stony Point Lake) dwelling units (ADUs) and junior accessory dwelling units (JADUs) Additional funding for incentives for owners of rental buildings to install Support for local jurisdictions to work with utility providers to all-electric appliances, efficiency upgrades, and other resilience nvestigate a zonal electrification approach to upgrade full neighborhoods to be all-electric and remove natural gas service measures Establish RCPA as informational clearinghouse that educates customers and helps them apply for incentives and rebates, including providing Development of on-bill financing programs to help fund building upgrades as part of household and commercial utility bills information on a spectrum of financing options Additional funding for 0% or low-% financing programs to help fund Promotion of daytime charging and workplace charging to shift electric vehicle energy demand to times of peak solar production comprehensive electrification, efficiency, and resilience upgrades for existing buildings Creation of early buyout programs to encourage building owners to replace natural gas appliances prior to end of life burnout Creation of rapid replacement programs to assist building owners with replacing natural gas appliances after unexpected failure Increased opportunities to offset insurance costs due to installation of nome hardening improvements for wildfire protection Direct support for rural propane users to identify and install electrification, efficiency, and resilience upgrades dditional funding for buying down the interest rate of PACE program inancing to allow more building owners to use funding op Educate and advise local residents and building owners on Provide workforce training for building contractors and Ensure all members of the community benefit from zero-emission appliance upgrades and other resilience employees on electrification and resilience improvements electrification and resilience upgrades, especially while also working to protect outdoor workers low-income residents and renters. improvements. Examples of such projects include: Examples of such projects include: Examples of such projects include: Development of an ambassador program to assist homeowners with Expanded opportunities and financial incentives for contractor Expanded bill assistance for low-income households to counter the education on the benefits and customer financing options for electrification and resilience upgrades, working with contractors, finding rebates and incentives, and evaluating financing options igher costs of electrification and needed utility infrastructure electrification, efficiency, and resilience improvements Development of a funded residential home audit program to educate building owners and help guide the upgrade process through an energy Protections against extreme heat impacts to outdoor workers (roofers Protections to ensure that incentives are directed to those with the mos audit program that encourages and tracks implementation of andscapers, builders, etc.) eed and do not go to wealthy property owners comprehensive electrification, efficiency, and resilience upgrades Development of building owner roadmaps for existing home retrofits Expanded incentives and homeowner assistance for low-income or Creation of program to incentivize contractors to complete education that cover electrification, electric vehicle charging, vehicle-to-grid disadvantaged homeowners in making upgrades and/or installing solar program on electrification technologies, home hardening, and other resilier expanded contractor education about wildfire hardening retrofits and he benefits of making such upgrades Development of comprehensive climate-related education programs in conjunction with educational institutions, trade unions, and large employers ADDITIONAL IDEAS FROM ANN'S LIST: ADDITIONAL IDEAS FROM SCP LIST: TERMS IN NEED OF DEFINITION OR CLARIFICATION: Copy Portland Clean Energy Fund Integrate equity into other items Climate Mitigation - need consistent definition across sectors Messaging: make clear how this measure provides something NOT Define EV charging infrastructure needs more clearly Climate Adaptation - need consistent definition across sectors provided by feds/State Engage CBOs in education and outreach process Glean info from Sebastopol electrification survey Climate Resilience - need consistent definition across sectors

Make it easier and more affordable to build "green"

Better define how to "protect workers from extreme heat impacts"

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Invest in bicycling and pedestrian improvements that

increase actual and perceived user safety and convenience

improved walkways pedestrian facilities at transit and activity centers

increased bicycle parking at key shopping, entertainment, and

Improved wayfinding and route signage for bicyclist and pedestrians

Fund quick build projects (low-cost improvements for demonstration,

Potential Program Areas - Transportation

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employment destinations

e.g., paint and temporary barriers)

Examples of such projects include:

Close gaps in the bicycle network to increase safety

improved maintenance on bikeways and sidewalks

Improved bikeways and walkways around schools

nstall traffic calming measures, i.e. speed tables

Invest in transit operations that improve reliability and frequency of service for all residents and visitors

Examples of such projects include:

Expanded hours of transit service operations and reducing the headway times between buses (extended hours and increased frequency) Reduced or eliminated transit fares for some or all rider groups

Seamless user experience on local and regional transit

ncreased zero emission vehicles in transit, school, and municipal fleets

xpanded Express Bus Service along high-profile routes

improve bus speeds and on-time performance (preferential treatment for buses on local roadways like queue jump lanes, signal preemption, bus rapid transit (BRT), etc.)

Provide workforce training on zero-emission vehicle repair

Create a bike barn for bike repair, including education and training for

Training programs for electric bus mechanics, bus operators, train

and transit operations, while also working to protect

Real-time transit arrival signage

Free wi-fi on buses and trains Added capacity for bikes on buses and trains

ncrease school bus programs

Expanded bus routes (increased coverage)

examples of such projects include:

e-bikes and cargo bikes

engineers

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Invest in programs that increase personal mobility through

active transportation, transit use, or ride sharing

Expanded hike and scooter sharing with subsidized memberships

Expanded Employer Commute Programs offering shuttle connections

Offer of E-bike incentives for local residents, students, and employees

Expand Employer Commute Programs with financial incentives for

Examples of such projects include

between work sites and transit hub

employees to take transit to work

hrough employers and housing developments

Ensure all members of the community benefit from transportation upgrades, especially low-income residents and those without vehicles.

Examples of such projects include:

ncentivize Clipper START program

Prioritize criteria that advances projects or transit expansion in equity priority communities.

Educate local residents, homeowners, and employees on zero-emission transportation and other personal mobility

examples of such projects include:

Promotion of Safe Routes to Schools educational programs for local students and families

Staff for building capacity and culture around active transportation

Bus camp to teach kids to take the bus, use bus to go on excursions

Additional Ideas for Consideration:

Bicycle and Pedestrian Improvements - Improve bicycle parking at transit hubs

Bicycle and Pedestrian Improvements - Improve bicycle connections to transit hubs Bicycle and Pedestrian Improvements - Require bicycle lockers/racks at park and ride lots

Bicycle and Pedestrian Improvements - Require large commercial developments to install showers and lockers for employees commuting by bicycle

Bicycle and Pedestrian Improvements - Require commercial developments to install sufficient bicycle parking at work site with protection from the weather and in a safe location easily accessed by bicyclists

Bicycle and Pedestrian Improvements - Expand Employer Commute Programs with financial incentives for employees who bicycle to work

Bicycle and Pedestrian Improvements - Require or encourage new bikeshare infrastructure in conjunction with other public projects and new infrastructure and development, as applicable

Bicycle and Pedestrian Improvements - Consider reducing parking requirements when bike share is included in new developments

Bicycle and Pedestrian Improvements - Include bike share information on any web-based transit trip planning tools or informational sites

Bicycle and Pedestrian Improvements - Educate residents about how to use bike share as a transportation alternative, especially in communities with lower incomes and non-English speakers Transit Measures - Extend rail transit service (SMART)

Transit Measures - Expand bulk discount pass programs for employers, housing developments, and institutions

Land Use Improvements - Cluster high density housing and services near transit hubs and promote compact mixed use development

Land Use Improvements - Develop transportation investment criteria that supports 4-d development strategy (density, diversity, design, destinations) Land Use Improvements - Encourage infill development and carbon efficient design

Land Use Improvements - Work to overcome Jobs Housing imbalance with new job development accompanied by new housing suitable for jobs added

Land Use Improvements - Encourage smaller less centralized locations for daily goods and services (small neighborhood groceries, clinics providing daily/routine procedures away from hospitals, etc.)

Land Use Improvements - Implement Housing Assistance Program to provide appropriate employee housing near employer Ridesharing - Increase amenities at park and ride facilities, including secure bike lockers, EV charging, ridematch, and transit marketing

Ridesharing - Adopt policies requiring any public partnerships with TNC's to favor ridesharing over individual rides

Travel Demand Management - Conduct outreach to encourage employers to implement commute programs

Travel Demand Management - Adopt TDM ordinance with requirements for SOV reduction measures, including GreenTrip options for local municipalities, employers, and developers

Travel Demand Management - Conduct public education programs such as travel choice

Travel Demand Management - Promote telecommuting

Travel Demand Management - Promote school based TDM (school pool, Safe Routes to Schools)

Travel Demand Management - Implement carsharing, and other shared mobility programs at new high-density developments in transit rich areas

Travel Demand Management - Consider reducing parking requirements when carshare is included in new developments

Pricing - Charge for parking at activity centers (town centers, employers, shopping centers, etc.)

Pricing - Unbundle parking from residential and commercial leases

Pricing - Implement congestion pricing

Pricing - Support increases in gas tax or user fees on regional, state, and federal level

Transportation Technology Improvements - Increase zero emissions fleets for transit, school, and municipal vehicles

Transportation Technology Improvements - Increase fuel efficiencies

Transportation Technology Improvements - Accelerated school bus replacement

Transportation Technology Improvements - Carbon offsets

Sonoma County Regional Climate Protection Authority
Climate Protection Initiative - Program Committees

Potential Program Areas - Land and Water

Land and Water: Sequestration

Invest in efforts that increase carbon sequestration on

also enhancing climate resilience and preserving

natural lands, working lands, and developed areas while

Management of lands to conserve and restore biodiversity, including

such actions as conservation, restoration, and management of uplands

wetlands, and floodplains to reduce flood risk, increase water quality and quantity, and allow for significant carbon sequestration potential.

Expansion of regenerative agricultural practices reduce climate risks

of burned areas, reduction in density and diversification of species,

forest health monitoring, and understory or overstory planting.

risks, stabilize land, regulate water flows, and sequester carbon.

ncreased planting of trees in developed areas to enhance carbon

Increased carbon sequestration across all habitat types

Expanded buffers around old growth forests

sequestration, provide shade cover, and lower extreme heat impacts.

Reduced food waste with the remaining amounts directed to compost

funding programs to allow landowners access to additional resources

programs to create amendments that are returned to the soil
Coordinated efforts with Zero Foodprint and other complimentary

from drought, wildfire and extreme precipitation as well as providing fo

Advancement of climate resilient forest conservation and management including such actions as ecologically appropriate thinning, control of insect and disease outbreak by removing infested material, restoration

Conservation, restoration, and management of forests to reduce wildfire

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ecosystem functions.

Examples of such projects include:

carbon sequestration and storage.

Land and Water: Mitigation

Invest in efforts that <u>reduce greenhouse gas emissions</u> from natural lands, working lands, and developed areas while also enhancing climate resilience and preserving ecosystem functions.

Examples of such projects include:

Advancement of climate resilient and regenerative agricultural practices on all of the county's croplands, vineyards, and grazing lands, including such actions as reducing soil disturbance, promoting continuous vegetative cover, reducing irrigation by increasing the water storage potential of soils, reducing or minimize reliance on pesticides, rotating crop schedules and grazing schedules, and applying compost for soil health.

Advancement of resilient rangeland management, including such action as grazing exclusions and nutrient buffers, regenerative grazing, routine monitoring, and adaptive management.

Use of fuels treatment and post-fire land and water restoration, including such actions as prescribed burns, thinning, pruning, chipping, grazing, and removal of ladder fuels.

Erosion control to protect waterways post fire, reseeding, foster wildlife recovery, manage invasive species, removal of toxic ash and debris, and fuels treatment in adjacent areas.

Enhancement of groundwater resources through such actions as floodplain enhancement, creating recharge basins, managing vegetation transitions, on-farm recharge, soil carbon projects, water/landscape efficiency projects, stormwater recapture requirements, and groundwater banking.

Investments in resilient buffer zones within and around developed areas, including such actions as identifying existing trails, open spaces, recreational green spaces, and agricultural lands that can contribute to a network of climate resilient buffers, identifying gaps and critical locations for additional buffers, and managing, restoring and acquiring lands that prioritize equity, wildfire resilience, biodiversity and the provision of community green spaces.

Enhanced land management techniques on parcels that have been previously protected with conservation easements

Organization of private landowners to invest in stewardship of lands

Restoration of watersheds

Development of more sustainable local food systems that are resilient in the face of climate change

Development and implementation of carbon farming plans in

partnership with local property owners and land managers
Establishment of comprehensive farm-to-table programs that work with
food processors and retail stores on mitigation measures like reducing
energy use from refrigeration

Development of ocean-based algae and kelp growing
Development and promotion of low-emission food production
techniques

Land and Water: Water-Related

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Invest in <u>water-related climate adaptation improvements</u> to increase the long-term resiliency of countywide water operations and facilities, and green infrastructure such as watersheds, waterways, floodplains, and wetlands.

Examples of such projects include:

Improved resilience of water supply infrastructure

ncreased operational flexibility of water management facilities

Improved water supply system integration and regional resilience on water quality in all parts of the watershed

mproved watershed and natural resources management

mproved flood management planning, infrastructure, and operations

ncreased opportunities for re-use of treated wastewater

Improved wastewater infrastructure planning, installation, and

Land and Water: Education

Educate local land owners on land and water-focused climate resilience opportunities.

Examples of such projects include:

Creation of a marketing campaign to change behavior

Land and Water: Workforce

Provide workforce training on enhanced land management techniques, while also working to protect outdoor

Examples of such projects include:

Additional funding for heat-related protections for outdoor workers

Land and Water: Equity

Invest in climate adaptation improvements to increase the long-term resiliency of Sonoma County's most vulnerable people.

Examples of such projects include:

Increased partnerships with tribal governments to restore and steward local lands for carbon sequestration and climate resilience Investment in the social infrastructure needed to support these efforts (e.g., Sonoma Valley Wildlands Collaborative)